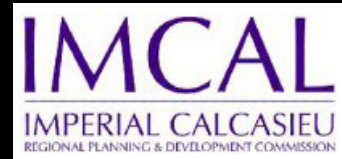


Prepared For



U.S. Department  
of Transportation

**Federal Highway  
Administration**



# Lake Charles Regional ITS Architecture

## ADDENDUM

Prepared By



FINAL  
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## Introduction

A comprehensive review of the regional intelligent transportation systems (ITS) architecture is recommended every five years. The Louisiana Department of Transportation and Development (LADOTD) requested addendum updates to the Lake Charles Regional ITS Architecture document which was developed in July 2011. The purpose of this addendum is to provide additional documentation of the updates required for the regional ITS architecture. This addendum therefore documents significant changes required to be made to the architecture so that project deployments are relevant and emerging needs are met. The following are the addendum updates that are required for the Lake Charles Regional ITS Architecture document.

## ITS Architecture Boundary

The ITS architecture should be extended beyond the MPO boundary to include the following:

- LA 27/LA 397/LA 14 Loop (LA 397 south from I-10 near MP 36 to LA 14 east to LA 27 south to LA 27/LA 82 west across ship channel continue west to LA 27 north).
- East and West of Calcasieu Channel

## ITS Stakeholders

Updates to the stakeholder list on page 7, Table 2:

- Include South West Louisiana (SWLA) Safety Coalition.
- Growth and Opportunity (GO) Group

Update to sources of ITS information available to public on page 8, Table 2:

- Way-To-Geaux App
- Calcasieu Parish Eagle App

Connect apps to enable traffic messages to be distributed to all apps.

## ITS Inventory

The following changes are applicable to Table 3 on pages 9-12:

- Delete "Calcasieu Parish Sheriff's Motorist Assistance Patrol (MAP) and include MAP services under Lake Charles TMC. Motorist assistance patrol should be run by the Lake Charles TMC.
- Delete "City of Lake Charles Engineering" element. The City of Lake Charles does not have an engineering department (work is subbed out to contractors)

## Existing ITS

The following changes are applicable to Table 4 on pages 12-13:

- There are 3 DMSs
- Wireless capabilities of PCMS are not being used since the District chose not to renew annual license/plan
- MAP hours of operation are 6:30am – 6:30pm and the limits are for I-10 from LA 1256 to LA 397 and for I-210 from I-10 (West) to I-10 (East). MAP is managed by the Statewide TMC until the Lake Charles TMC is established

## Closed Loop Signal System

The following changes are applicable to Section 6.1.5 Closed Loop Signal System, page 14:

- 126 signalized intersections operated and maintained by District 07 (no signals maintained by City)

- 13 closed loop signal system (including 3 belonging to the City)

## Transportation Issues

The following locations should be included in the Section 6.2.1 High Incidents, page 15:

- LA 27 (Beglis) @ I-10
- LA 1256 (Ruth) @ I-10
- LA 108 (City Service) @ I-10
- LA 108 Eastbound on Ramp (Exit 23)
- Exit 29 – La 1262 (Lakeshore Drive) – roll over
- Exit 30 – Ryan St. – roll over
- Exit 31B – Shattack Street – roll over
- Exit 32 – Opelousas Street – roll over
- Exit 33 – US 171 (North) / La 14-Cameron (South) – roll over

## High Growth, Congestion and Needed Signal Coordination

The following locations should be included in the congested corridors during peak travel time:

- La 385 (Ryan Street)
- La 385 West
- La 384
- La 1138-2 (Nelson Road / Prien Lake Road)
- US 171 (I-10 to La 378)
- US 171 – DeRidder
- US 171 – US 190
- La 14
- La 378 Moss Bluff – Westlake

Future Congestion identified due to TIA

- Sulphur (La 27, La 108, La 1256, La 379, US 90)
- S. Lake Charles (LA 1138-2, LA 384, LA 385)

## Bridges

The following should be included in the discussion for the I-10 Calcasieu River Bridge under Section 6.2.3 Bridges:

- Slow moving – large vehicles struggle to get up steep grade of bridge causing traffic to back up or even accidents
- Entrance ramps in close proximity to bridge
- Limited acceleration and deceleration distances between entrance ramps and bridge

## Opportunistic Projects for ITS Deployment

ITS deployments may be planned and deployed during construction for the following projects:

- 171 @ Conoco
- La 1256 – Widening
- I-10 – TX State Line to meet up with existing 3 lane
- I-10 – La 108 to I-210 interchange (3 lanes to 4 lanes)